Specialists in design and manufacture of agricultural processing equipment

DRYERS FOR AFRICA

www.dryersforafrica.co.za

Company

Nelspruit based company, Dryers for Africa, specialises in the design and manufacture of agricultural processing equipment.

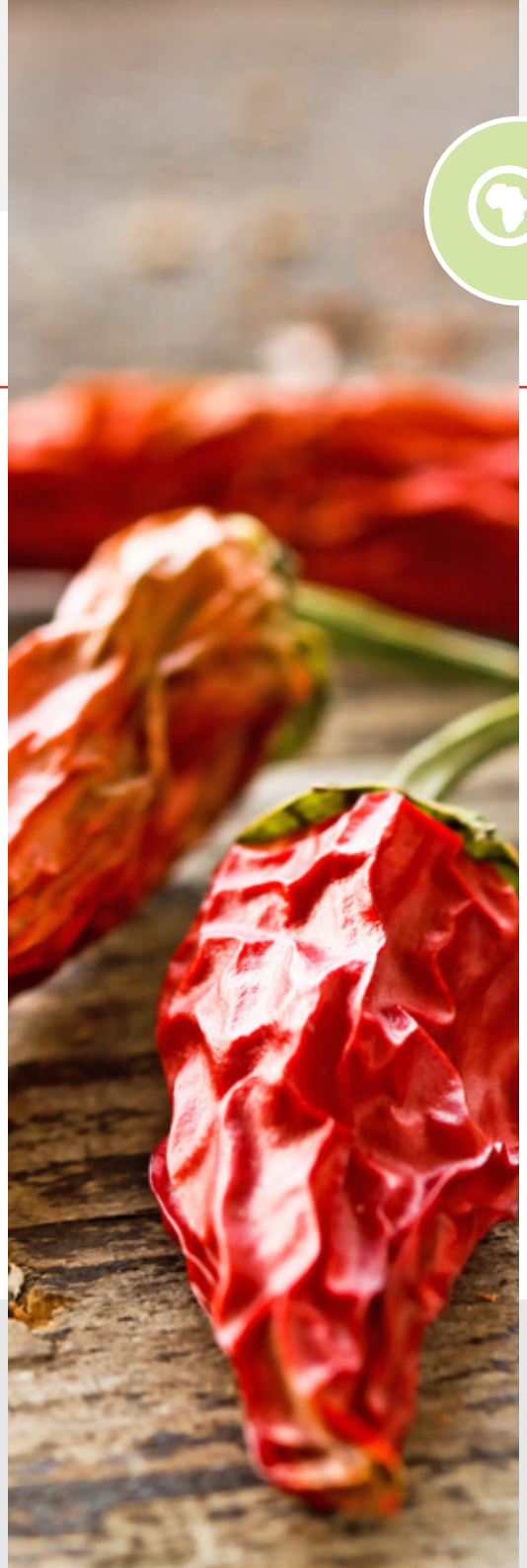
Dryers for Africa has for the last decade been designing and building dryers and processing equipment for commercial and small-scale emerging farmers.

It's success has been largely due to extensive knowledge and experience in drying and processing of fruit, vegetables, herbs, nuts and meat. The process of drying and juicing has in the past been the domain of large commercial organisations with the exception of sun-drying, which has a number of limitations.

- Fruit, Vegetable & Herb Drying Systems
- Small-Scale Fruit & Vegetable Pulp & Juice Equipment
- Macadamia on Farm & Final Drying
- Insulated Cold / Freezer Rooms
- Meat & Fish Drying Systems

"I am so excited and have no words to express how excited I am to receive such positive and quick response from you, so professional. Thank you so much."

- Bonke Bashe | Bashe-BEE Trading



Focus on Africa

Africa has an abundance of fruits and vegetables- some indigenous, and are largely wasted due to lack of skills and technology.

Dryers for Africa has focused it's products on this market, specifically through understanding the limitations of available skills, environmental issues, and energy sources.

It is a low technology system that minimises the use for highly skilled engineers and or electricians, whom are usually costly if available in some rural areas. Heating source can be electricity, solar, gas, coal, biomas fuel or steam depending on local availability and cost.

Previously Disadvantaged; Disabled; Unskilled; Aged; Struggling Communities and Small-Scale Farmers combining efforts by processing their combined raw materials for value-adding and resale, creating employment, or serving the community by reducing food waste.

"The machine is installed and working and some of my staff were trained. Your team were excellent and professional."

-Matthew Ballenden | Fresh Earth Bakery

DRYERS FOR AFRICA

Advantages of Processing

- Farm produce that is normally excessive for local use would normally go to waste or sold as fresh produce for little return.
- Processing by drying and/or juicing has value added to it along with anextended shelf life and reduced transport costs
- Enhancing Food Security
- Reducing Poverty
- Reducing Environmental Impact (Gas and Water Contamination)
- Income Generation (Organisations & Individually)
- Reducing Hunger and Malnutrition
- Reducing Post-Harvest Food Wastage
- Increasing Individual Skills and Training Development
- Reducing Community Hunger and Malnutrition
- Empower Small Scale Farming Communities
- Encourage Self-Sustainability and Best Practice Farming
- Creating Community Partnerships
- Promote Local Action

DRYERS FOR AFRICA

Ease of Maintenance and Installation

Our dryers are self-supporting, easily transportable, affordable, with high thermal efficiency units. The use of low cost insulated panels and aluminium sections offers ease of installation, relocatability, thermal efficiency and hygienics. Extremely simple to operate, require no skilled input, and aesthetically appealing. Dryers are multi-purpose - can be used for virtually any type of agricultural product.

Safety and Ergonomics

The dryer design is inherently safe for the skilled or unskilled worker, and require the minimum of maintenance. Ergonomically, it offers a clean and hygienic workplace. All contact parts with the product are of food-grade material.

Pulping /Juicing Processing

A small-scale juice processing unit is available that can do between 25 - 100lt/hr. Occupies very little space, requires minimal electrical supply, can be easily transported. There is no compromise on food quality and safety standards.

Components

- Food Grade Plastic Drying Trays
- Digital Temperature & Humidity
- Controllers
- Stainless Steel Trolley/s
- Chromadek Insulation Panels
- Aluminium Profiles
- Mild Steel Support Structure
- User Manual & DVD
- Life time Online Support

Environmental Impact

The product is harmless to the natural environment. There is no waste generated in the manufacture of the product.

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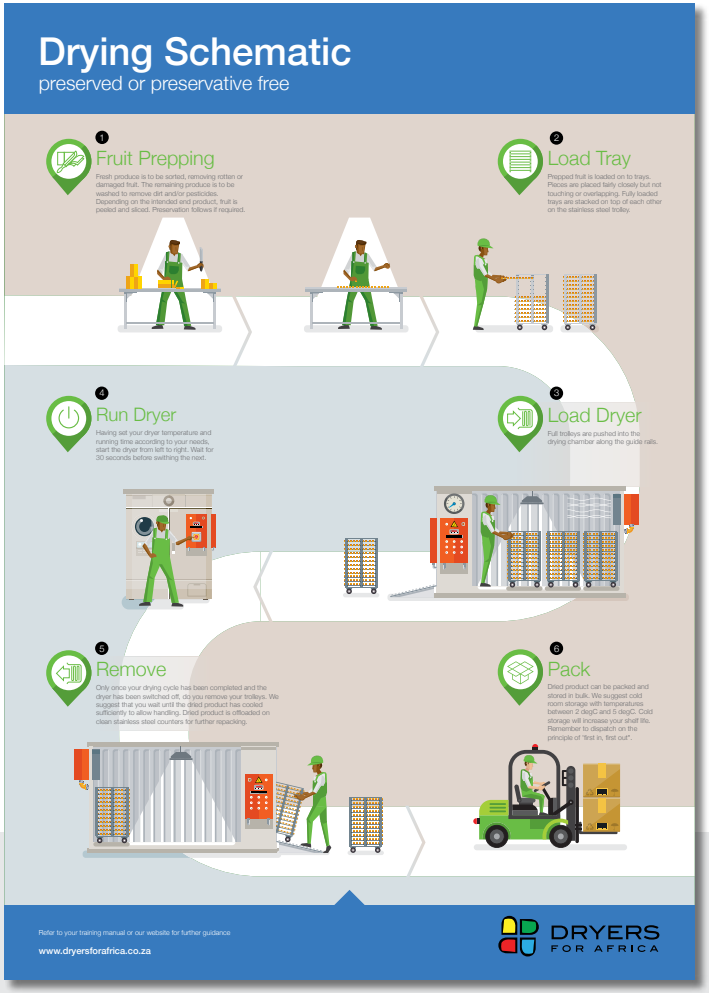
Dryer & Juicing Schematic


Drying Schematic
preserved or preservative free
1 Fruit Prepping
Fresh produce is to be sorted, removing rotten or damaged fruit. The remaining produce is to be washed to remove dirt and/or pesticides. Depending on the intended end product, fruit is peeled and sliced. Preservation follows if required.
2 Load Tray
Prepped fruit is loaded on to trays. Pieces are placed fairly closely but not touching or overlapping. Fully loaded trays are stacked on top of each other on the stainless steel trolley.
3 Load Dryer
Full trolleys are pushed into the drying chamber along the guide rails.
4 Run Dryer
Having set your dryer temperature and running time according to your needs, start the dryer from left to right. Wait for 30 seconds before swithing the next.
5 Remove
Only once your drying cycle has been completed and the dryer has been switched off, do you remove your trolleys. We suggest that you wait until the dried product has cooled sufficiently to allow handling. Dried product is offloaded on clean stainless steel counters for further repacking.
6 Pack
Dried product can be packed and stored in bulk. We suggest cold room storage with temperatures between 2 degC and 5 degC. Cold storage will increase your shelf life. Remember to dispatch on the principle of "first in, first out".
Refer to your training manual or our website for further guidance
www.dryersforafrica.co.za
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Conversions Available

- Solar
- Steam
- Electric
- Gas
- Hot Water
- Coal
- Combo
- Biomass

Please note:

Conversions aren't available for all models and pricing structure will be amended for certain conversions

DRYERS FOR AFRICA

Product Range

Solar

SD10

Chromadek

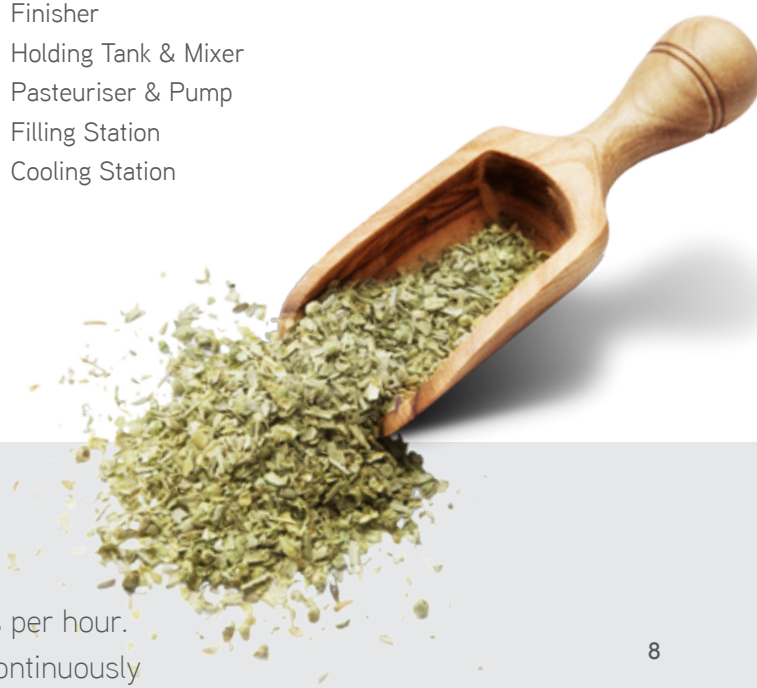
AD10
AD50
AD200
AD750
AD2500
AD7200
Custom

Container

CD1500 (1 door)
CD1500 (2 door)
Juice Plant

Juicing:

Washing & Sorting Station
Pulper
Finisher
Holding Tank & Mixer
Pasteuriser & Pump
Filling Station
Cooling Station



- Customised equipment available
- Additional conversions are available on request
- Capacities on agri-dryers range from 10kgs to 7200kgs
- Capacities on juicing plants range from 25kgs to 1000kgs per hour.
- Additional sets of trolleys and trays are available to dry continuously

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Specifications

Model	kW	Trays	Tray Area (m²)	Wet Product In (kg)	Est. Dried Product Out (kg)
SD10	0	2	1,08	10-12	1-2
AD05	0,6	9	1,5	4-5	0,5-1
AD50	3	10	5,4	50-60	10-12
AD200	18	40	21,6	200-240	60-100
AD750	54	144	86,4	750-850	150-175
AD2500	144	450	216,0	2000-3500	450-750
CD1500 (1)	72	240	129,6	1200-1440	240-300
CD1500 (2)	72	240	129,6	1200-1800	240-190

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Juicing and Pulping Specifications

Model	Capacity (l/hr)
Finisher	50
Finisher	100
Finisher	500
Pulper	50
Pulper	100
Pulper	500
Pasteuriser	25
Pasteuriser	100
Pasteuriser	500
Pump	100
Pump	500
Holding Tank & Mixer	115
Holding Tank & Mixer	500
Automated Filling Station	Set as desired

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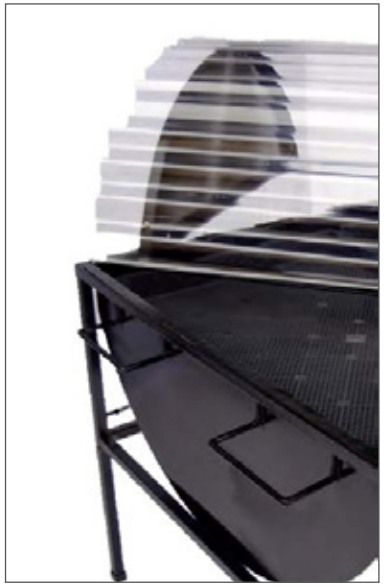
SD10



Specifications

Model	SD10
kW	0
Trays	2
Tray Area (m^2)	1,08
Wet Product In (kg)	10-12
Est. Dried Product Out (kg)	1-2
Length (mm)	1310
Width (mm)	980
Height (mm)	1060
Requires direct sunlight.	

Solar Dryers

AD50

AD50

Specifications

Model	AD50
kW	3
Trays	10
Tray Area (m^2)	5,4
Wet Product In (kg)	50-60
Est. Dried Product Out (kg)	10-12
Length (mm)	1650
Width (mm)	750
Height (mm)	1300
Allow between 250mm – 400mm added to the length for the control panel.	

Agri-Dryers

AD200

Specifications

Model	AD200
kW	18
Trays	40
Tray Area (m^2)	21,6
Wet Product In (kg)	200-240
Est. Dried Product Out (kg)	60-100
Length (mm)	2320
Width (mm)	1010
Height (mm)	2162
Allow between 250mm – 400mm added to the length for the control panel.	

Agri-Dryers

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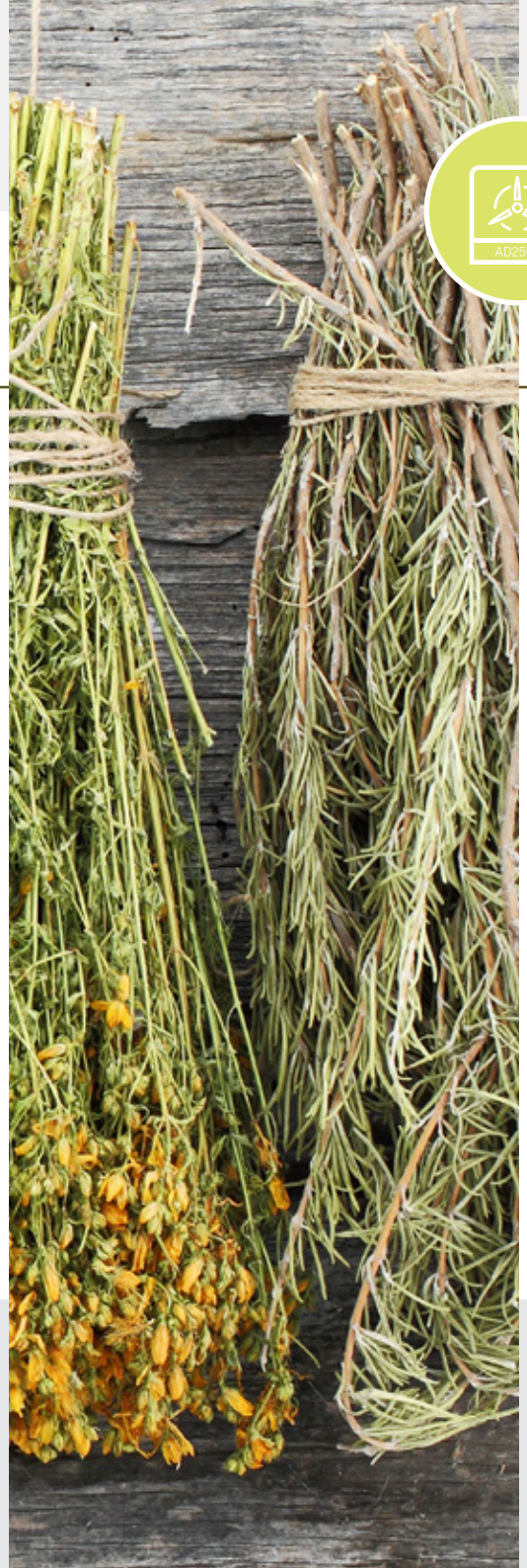
AD750

Specifications

Model	AD750
kW	54
Trays	144
Tray Area (m^2)	86,4
Wet Product In (kg)	750-850
Est. Dried Product Out (kg)	150-175
Length (mm)	3820
Width (mm)	2100
Height (mm)	1970
Allow between 250mm – 400mm added to the length for the control panel.	

Agri-Dryers



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AD2500 & CUSTOM

Specifications

Model	AD2500
kW	144
Trays	450
Tray Area (m^2)	216,0
Wet Product In (kg)	2500-3500
Est. Dried Product Out (kg)	450-750
Length (mm)	6000
Width (mm)	3000
Height (mm)	2800
Allow between 250mm – 400mm added to the length for the control panel.	

Agri-Dryers

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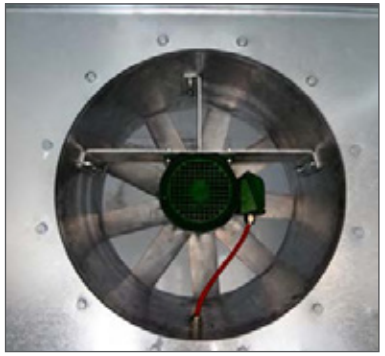
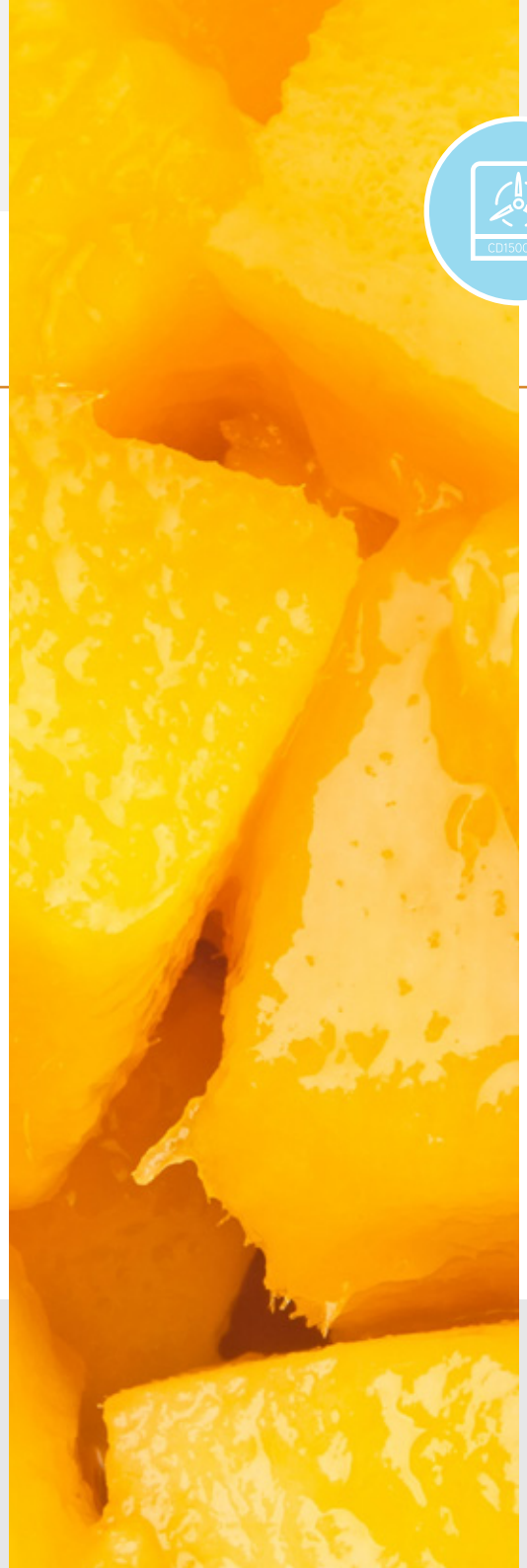
CD1500 TYPE 1 ELEC



Specifications

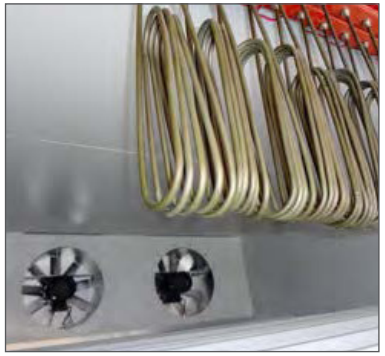
Model	CD1500 (1)
kW	72
Trays	240
Tray Area (m^2)	129,6
Wet Product In (kg)	1200-1440
Est. Dried Product Out (kg)	240-300
Length (mm)	6060
Width (mm)	2440
Height (mm)	2600
Allow between 250mm – 400mm added to the length for the control panel.	

Container Dryers



DRYERS FOR AFRICA

CD1500 TYPE 2 ELEC



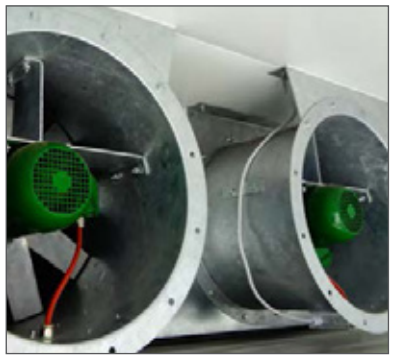
Specifications

Model	CD1500 (2)
kW	72
Trays	240
Tray Area (m^2)	129,6
Wet Product In (kg)	1200-1800
Est. Dried Product Out (kg)	240-590
Length (mm)	6060
Width (mm)	2440
Height (mm)	2600
Allow between 250mm – 400mm added to the length for the control panel.	

Container Dryers

G
CD1500 • 1

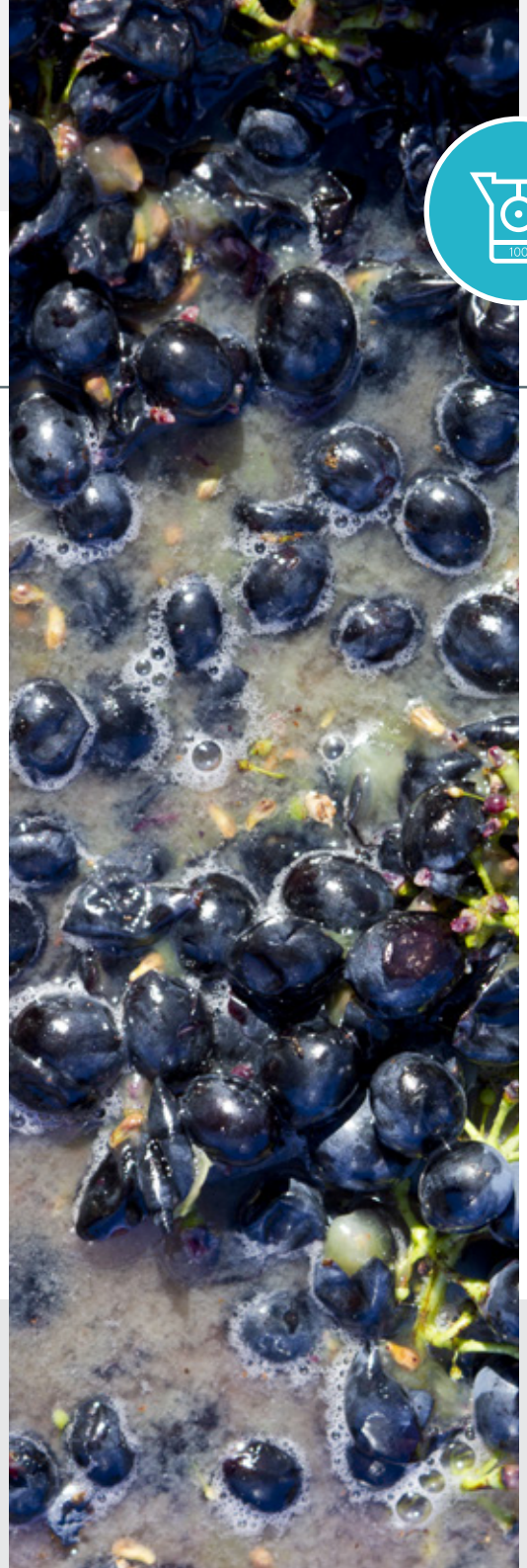
CD1500 TYPE 1 GAS



Specifications

Model	AD1500 (1)
kW	72
Trays	240
Tray Area (m²)	129,6
Wet Product In (kg)	1200-1440
Est. Dried Product Out (kg)	240-300
Length (mm)	6060
Width (mm)	2440
Height (mm)	2600
Allow between 250mm – 400mm added to the length for the control panel.	

Container Dryers



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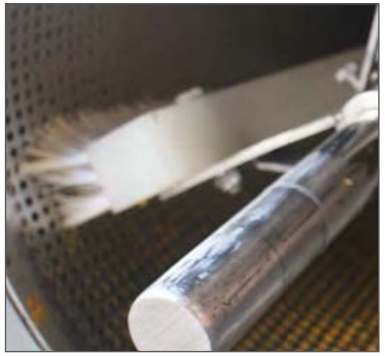
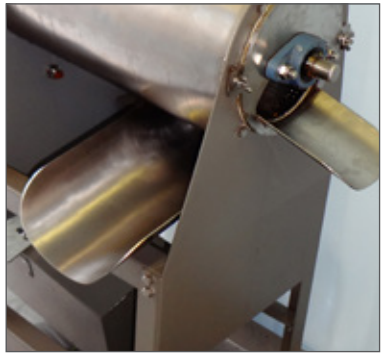
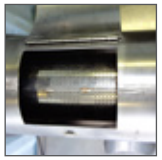
FINISHER BF100





Specifications

Model	Finisher
Capacity (l/hr)	100



Juicing Plant

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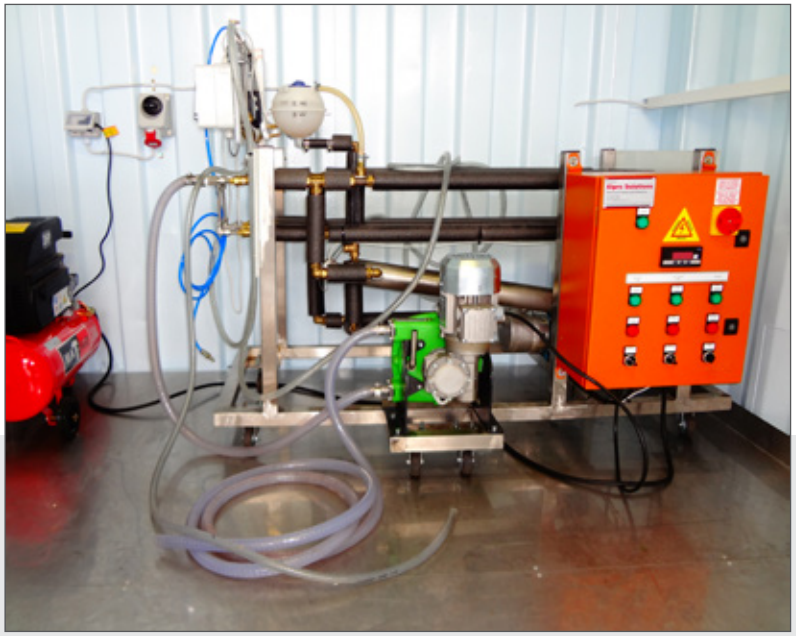
PULPER 100

Specifications

Model	Pulper
Capacity (l/hr)	100

Juicing Plant

PASTEURISER, PUMP, FILLING STATION

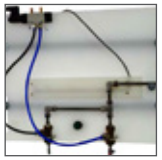


Specifications

Model	Pasteuriser
Capacity (l/hr)	100

Model	Pump
Capacity (l/hr)	100

Model	Filling Station
Capacity (l/hr)	Set as desired



Juicing Plant

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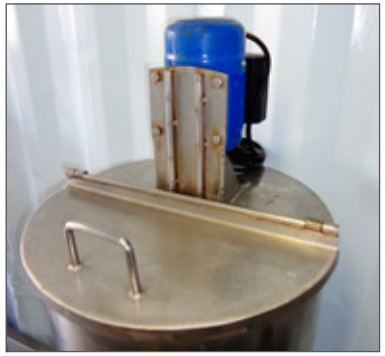
HOLDING TANK & MIXER 115



Specifications

Model	HOLDING TANK & MIXER
Capacity (l/hr)	115

Juicing Plant

DRYERS
FOR AFRICA

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